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DIRECTORATE OF
INTELLIGENCE

Imagery Analysis Service Notes

31 December 1970

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

IMAGERY ANALYSIS SERVICE NOTES NO. 34/70

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FIGURE 2. NEW FERTILIZER PLANT AT WANG-CHU-CHUANG WILL USE REFINERY WASTE GAS AS RAW MATERIAL.

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CHINAFertilizer Plant Will Use Petroleum Refinery Waste Gas

A fertilizer plant designed to use petroleum refinery waste gas as a raw material is under construction near the Wang-chu-chuang Petroleum Refinery in Shantung Province. It is the first plant of its kind identified on photography in China. The use of waste gas for fertilizer production represents an advance in Chinese technology and will lessen their dependence on coal as a raw material.

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On KH-4 photography of [] the plant was about 75 percent complete (see Figure 2). Construction started in [] and will probably be completed early []. The plant will produce ammonia-based fertilizer, possibly urea. Hydrogen gas for the ammonia production will be obtained by reforming the gaseous hydrocarbons which are normally burned off by the refinery. The nitrogen required will probably be produced by the air separation process.

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An official Chinese news report has stated that the Lan-chou Chemical Fertilizer Plant has been using small amounts of gas from a nearby refinery. This cannot be confirmed from available small-scale coverage of the plant.

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NORTH KOREA

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North Korea Is Building a Second Probable Destroyer Escort

A second probable destroyer escort has been identified under construction in North Korea on recent photography. It is being built at Nampo Shipyard and is similar to a probable destroyer escort under construction at Najin Shipyard 28. These are the largest combatants to be built by North Korea.

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[] photography of Nampo Shipyard on [] revealed a completed hull, about 325 by 30 feet, with the main deck installed (see Figure 3). No superstructure was in place. Construction of this ship began sometime after late []

On satellite photography of [] the probable destroyer escort at Najin had the superstructure in place, but no armament had been installed. What may have been components for a third unit were in the assembly area beside the building way at Najin.

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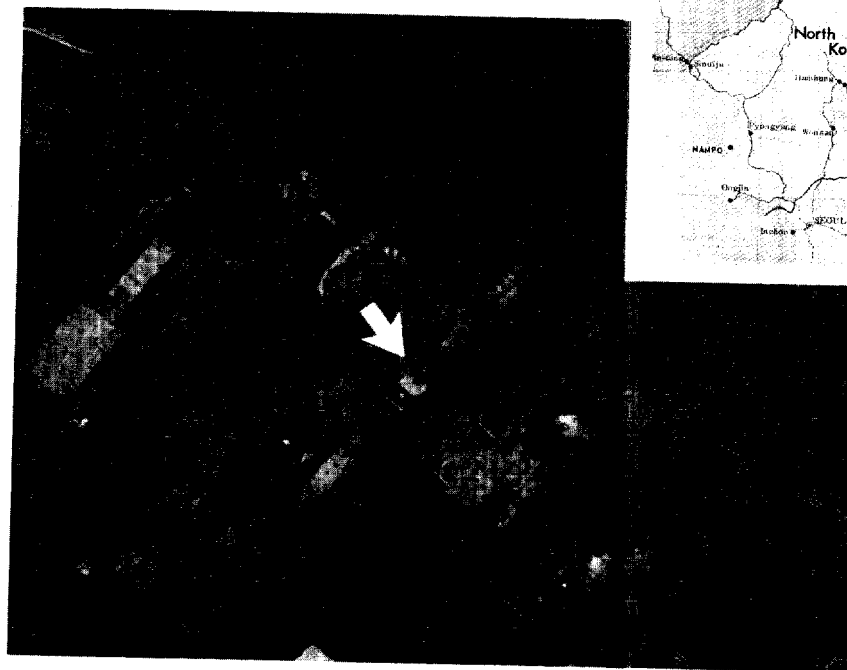
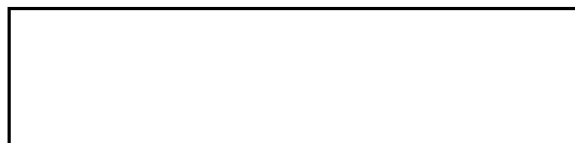


FIGURE 3. PROBABLE DESTROYER ESCORT UNDER CONSTRUCTION,
NAMPO SHIPYARD, []

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